

CONTHERM SCIENTIFIC LTD

TECHNICAL MEMORANDUM
PRINTER

PRODUCT : HR5

No : 0036

=====

=

FROM : Russell Kirkwood

DATE : 28/1/93

TO : CONTHERM

=====

=SUBJECT : MODIFICATIONS TO ADD SERIAL PORT TO HR5 PRINTER

Most of the current Contherm stock of HR5 printers will need to be modified to allow a SERIAL RS232c port to be fitted.

HARDWARE REQUIRED:

- A) Unmodified HR5 printer complete with power supply.
25 pin 'D' connector female right angle socket.
1489 IC (14 pin receiver rs232).
Wire to link switch contacts.

- B) Twin (or 4 core) shielded data cable. (2 meters)
25 pin 'D' plug male solder bucket.
cover for above plug.
3 pin DIN plug and cover.
link wire.

TO MODIFY HR5 PRINTER

- A) Check that printer has not already been modified.

- B) Unpack printer and discard paper roll, printer ribbons.

- C) Check that all parts for printer are there (esp power Supply)

- D) Remove any transport packing pieces (typ 3 off) and lift off front top cover to remove installed ribbon.

- E) Install thermal paper (Pt No: PAPER THERM) into printer and run printer self test. (Switch on with "on line" button depressed.).

- F) OPEN UP PRINTER:
Remove 4 screws from top half of printer, then disconnect cables (Blue & White connectors) and lift off top half.

Turn printer upside down and remove two screws holding printer roller in place, revert to correct way up, disconnect cables and remove printer roller assembly.

Using side cutters, remove rear plastic cutout for 25way socket.

Remove screw holding HR5 PCB and lift out PCB (Complete with buzzer).

CONTHERM SCIENTIFIC LTD

TECHNICAL MEMORANDUM
PRINTER

PRODUCT : HR5

No : 0036

=====

=

FROM : Russell Kirkwood
28/1/93

DATE :

TO : CONTHERM

=====

=SUBJECT : MODIFICATIONS TO ADD SERIAL PORT TO HR5 PRINTER
(Continued)

Using desoldering tool - clear holes in HR5 PCB for 25way connector and for 1489 IC (marked 75189 on HR5 PCB)

Solder wire links for SW2 on HR5 PCB (front RHS)

for 1200baud

for 2400baud

0-----0
0-----0
0 0
0 0
0-----0
0-----0

0 0
0-----0
0 0
0 0
0-----0
0-----0

NB: 1200 Baud is used on GP's 2400Baud is used on Precisions.

Solder in 25way socket.

Solder in 1489 IC. (Note correct orientation)

Add a 1K ohm resistor from pin14 of 1489 IC to pin8 of socket where 1488 IC would be fitted.

Clean any flux off PCB

Refit all parts back to printer in reverse order and check SW1 selections are as for TECHNICAL MEMO 0031 (15/7/92)

Mark Printer box with a completed sticker and show Baud rate.

Make up cable (2 Meters long) as per Technical Memo 0031